

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A hearing aid device configured to wirelessly transmit data between the hearing aid device and a further device, comprising:

- 5 a microphone configured to acquire an acoustic input signal and
 transduce it into an electrical signal;

 a signal processing and control unit configured to process the electrical
 signal;

 a receiver configured to transduce the electrical signal into an acoustic
10 signal; and

 an antenna coil that is wound on ~~around~~ the receiver or the microphone,
 the antenna coil being configured to implement the wireless
 transmission of data.

15 2. (currently amended) A hearing aid device configured to wirelessly transmit data between the hearing aid device and a further device, comprising:

- a microphone configured to acquire an acoustic input signal and
 transduce it into an electrical signal;

 a signal processing and control unit configured to process the electrical
20 signal;

 a receiver configured to transduce the electrical signal into an acoustic
 signal; and

 at least one of a shielding plate or a shielding capsule that shields or
 encloses the receiver respectively, the antenna coil being wound on
25 ~~around~~ the shielding plate or the shielding capsule.

3. (original) The hearing aid device according to claim 2, wherein the shielding capsule is comprised of ferrite material, mu-metal, or an iron sheet.

4. (original) The hearing aid device according to claim 1, further comprising:

5 a compensator configured to compensate a noise signal generated by the receiver and transmitted to the antenna coil.

5. (original) The hearing aid device according to claim 4, wherein the compensator comprises a compensation coil configured to compensate the
10 electromagnetic field generated by the receiver.

6. (currently amended) The hearing aid device according to claim 5, further comprising:

15 at least one of a shielding plate or a shielding capsule that shields or encloses the receiver respectively, the antenna coil being wound on ~~around~~ the shielding plate or the shielding capsule, wherein the compensation coil is wound on ~~around~~ the receiver, the shielding plate, or the shielding capsule.

20 7. (original) The hearing aid device according to claim 5, wherein the antenna coil and the compensation coil are implemented as a coil comprising a center tap.

8. (original) The hearing aid device according to claim 5, further comprising:
25 a compensation circuit that modifies an electric receiver input signal according to at least one of an amplitude and phase and feeds into the compensation coil.

9. (original) The hearing aid device according to claim 8, wherein the compensation circuit is an active filter.

5 10. (original) The hearing aid device according to claim 8, wherein the compensation circuit is a passive filter.

11. (original) The hearing aid device according to claim 9, wherein the filter comprises filter parameters that can be statically selected.

10

12. (original) The hearing aid device according to claim 10, wherein the filter comprises filter parameters that can be statically selected.

13. (original) The hearing aid device according to claim 9, wherein the filter
15 comprises an adjustment mechanism configured to permit filter parameters to be adaptively adjusted during operation.

14. (original) The hearing aid device according to claim 10, wherein the filter
20 comprises an adjustment mechanism configured to permit filter parameters to be adaptively adjusted during operation.

15. (cancelled).

16. (currently amended) The hearing aid device according to claim ~~4~~ 15, wherein
25 the compensator is an electronic compensator, and further comprises comprising

Appl. No. 10/634,975

Reply to Office Action of January 11, 2006 &

Response to Notice of Non-compliance of August 22, 2006

a subtraction filter to compensate the noise signal generated by the receiver and transmitted to the antenna coil.